

VALVE GATED NOZZLE HAVING A VALVE PIN WITH A SENSOR

ABSTRACT OF THE DISCLOSURE

An injection molding apparatus for delivering a melt stream of moldable material to a mold cavity. A valve pin extends through a melt channel of the apparatus that is axially movable to control the melt stream within the melt channel and/or to selectively open a gate to allow communication with the mold cavity. A processing sensor is coupled to the valve pin and is axially movable therewith. By example, the processing sensor may be a pressure sensor and/or a temperature sensor for sensing processing condition(s) of the melt stream and providing sensed information to a controller.

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